FAPER AIRPLANES HERITAGE SERIES



DESIGNED BY

DR. Y. NINOMIYA

Assembly Kit

Dr. Yasuaki Ninomiya was awarded the Grand Prize in both the flight time and distance divisions at the First International Paper Airplane Contest (Pacific Basin Division) in San Francisco in 1967 and served as a judge in the Second Great International Paper Airplane Contest in Seattle in 1985.

Assembly Kit for Models

IriLinear 702 RICKENBACKER friLinear 701 LINDBERG Racer 523 "BILLY" lacer 522 RICHARD lacer 521 JACQUELINE lacer 520 AMELIA lacer 519 "PAPPY"

IriLinear 703 CHENNAULT

Light Plane 306 ORVILLE Light Plane 305 WILBUR

McDonneil Douglas PHANTOM I "STREGA" (Modified P-51 MUSTANG)

Lockheed CONSTELLATION

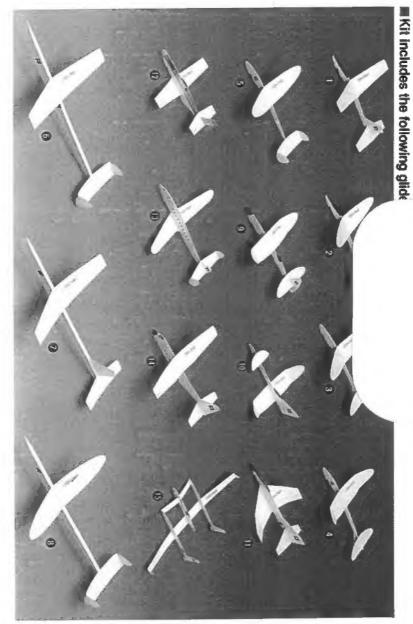
"VOYAGER" Lockheed C130 HERCULES

nstruction booklet 60 pages)

Assembly, flight, and design directions

Rubber band Catapult Also included:

LUE NOT INCLUDED)



FLYING FUN FOR EVERYONE

*Launch your plane in a large area away from people who might get hit.

*Don't fly your plane where cars will be passing by. When you fly your plane please keep the following in mind.



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Whitewings

ASSEMBLY INSTRUCTIONS

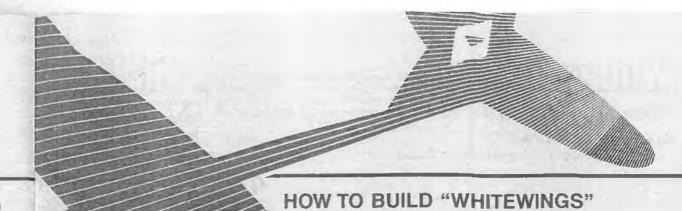
| FLIGHT INSTRUCTIONS

GUIDELINE FOR WHITEWINGS

INTRODUCTION TO PAPER PLANE DESIGN

HOW TO BUILD "WHITEWINGS"





aper with layers of rength.

:1.73

that it is umber of ne height ngth and paper are to heavy, take sure re glued complete, ther than crength.

hitewings is. When difference be much five layer ther and hat you'll aring the yourself

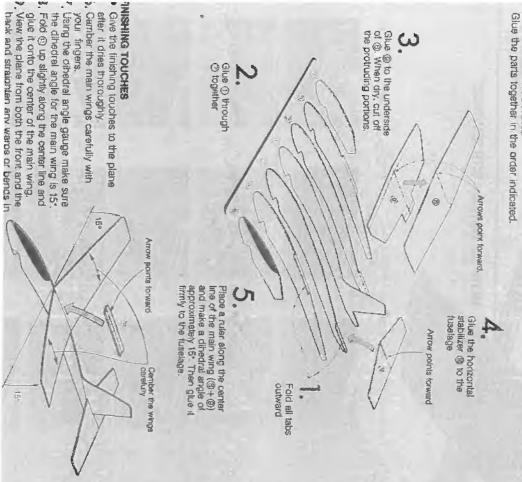
rle design Vledge to

locar 521 JACQUELINE Rocer 519 "PAPPY" Trilinear 701 LINDSENG ROCEN 522 ROCHARD Trilinger 703 CHENNAULT Trilingor 702 PICKENBACKER

Racer 519 "PAPPY"

Gregary "Pappy" Boyington (1912—1988)
One of the original insembers of the "Flying Tigers" group in Chini, Boyington spon qualified se an abe Nativitanial "Pappy" by he men, he served as its commender of the eelebrated fighting unit—the "Blacksheep".

GLUING INSTRUCTIONS

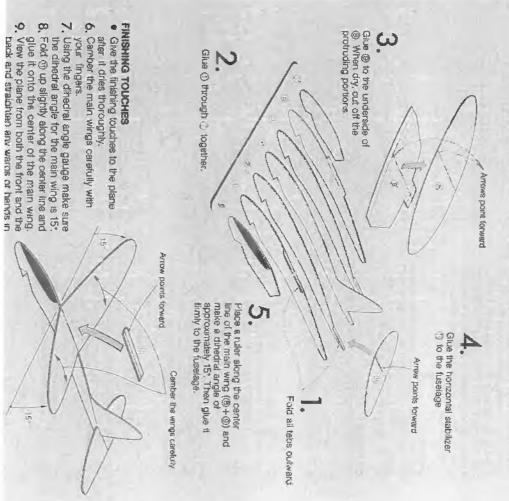


Racer 520 AMELIA

Ameia Earhant (1898—1997)
Beginning her career as a fog keepar, Ameila eemad instant fame as the first women to cross the Atlantio as a peaseinger. She want on to be the first women paiot to make a sofo transationtic flight.

GLUING INSTRUCTIONS

Glue the parts together in the order indicated



HOW TO ASSEMBLE THE MOST WINGS

shaped surface in math, I call this type of wing a MOST (Modified Saddle Type) wing. It is of the wing. Because the shape of the central constructed as follows part of the wing resembles a so-called saddle Series have a high performance main wing featuring a uniform camber along the length Three of the racer type planes in this Heritage

CAUTION 1

The parts numbers used below are for the Racer 521. As the part numbers and dihedral angle may change according to the model, be careful when

you use these instructions for other models.

CAUTION 2

When constructing the Racer 522, start with step 0.

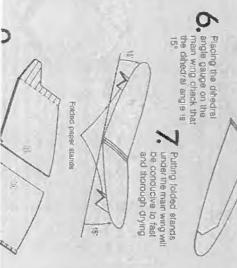
Glue parts together in the order indicated.





Dots toward the front

of the fuselage top where the main fold part (2) from the center line to make a 15° angle on both Using a ruler along the center line wings are to be attached. sides. Then curve it carefully with your fingers to fit the curved edge



Curve the main wings (9 + (9 and 9) + (9) respectively, in the manner shown in the figure on page 9. This curve is called camber



Apply glue on half of the underside of @ and glue onto @ + (1) (The arrow should point toward the dot.)



Club -25 In the same manner as in 4 attach (9) + (10) to the other side of (2)

Glue (1) through (2) together

Place the dihedral angle gauge on the main wing to make sure the dihedral

outward.

angle is 15°

Camber the wings parefully

Racer 521 JACQUELINE **配** 三

Jiscqueine Cochran (1910- 1950)
Soon after her first tying lessons in 1932, Jacquelline mastered he technical soon of a virtual of a virtual or and navigation. Sine was the first women to enter the Elevita Treasport/Inextal Air Race in 1935, and deplaned the Bandie Trophy in 1936.

Glue the parts together in the order indicated. GLUING INSTRUCTIONS



FINISHING TOUCHES

- Give the finishing touches to the plane after it dries thoroughly.
- 7. Camber the main wings carefully with your fingers.
- 8. View the plane from both the front and the back and straighten any warps or bends in



Curve the main wings, (a) + (a) and (a) + (b) respectively, in the manner shown in the figure on page 9. This curve is

called camber.

HOW TO ASSEMBLE THE MOST WINGS

a MOST (Modified Saddle Type) wing, it is shaped surface in meth, I call this type of wing featuring a uniform camber along the length of the wing. Because the shape of the central constructed as follows. part of the wing resembles a so-called saddle featuring a uniform camber along Series have a high performance main wing Three of the racer type planes in this Heritage

CAUTION 1

The parts numbers used below are for the Racer 521. As the part numbers and directral angle may change according to the model, be careful when you use these instructions for other models

CAUTION 2

When constructing the Racer 522, start with step 0

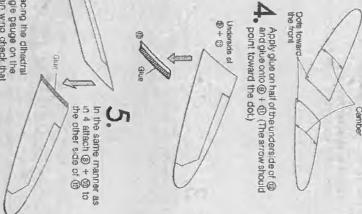
Give parts together in the order indicated

Glue parts (()) and (()) to the undersides of parts (()) and (()) respectively. When dry, out off the protruding portions



to make a 16° angle on both Using a ruler along the center line, wings are to be attached of the fuselage top where the main sides. Then curve it carefully with your fingers to fit the curved edge





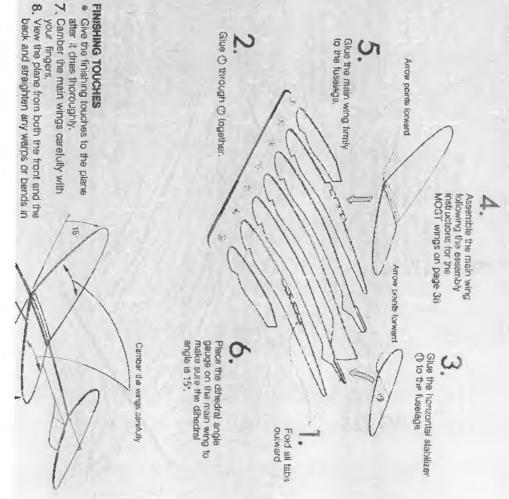
angle gauge on the main wing check that the dihedral angle is 15° Folded paper stands under the main wing will be conducive to fast and thorough drying. Putting folded stands

Racer 521 JACQUELINE

P 1938 Jacqueline Cocivan (1910—1960)
Soon after her flet floring lessons in 1932, Jacqueline mestered the technical spoeds of waterior and natiopation. Sits was the first woman to enter the service of waterior and natiopation sits and captured the Benotic Trophry.

GLUING INSTRUCTIONS

Glue the parts together in the order indicated.



Racer 522 RICHARD

Richard is Bong (1820–1945)
Though his career was short-lived, Blohard soon established himself as a squestron leader and an ace flyer during World War II. He was awarded the Medal of Honor for his ellonts during the war and is remembered for his gallanity.

GLUING INSTRUCTIONS

Glue the parts together in the order indicated.

Give the middle part of the main wing firmly to the tuselage

Assemble the middle part of the wing with (9), (9), (9), (9) and (9) following the assembly instructions (). 1. ..., 7. on page 38, starting with step (). The cihedral angle, however, must be 5°. Be careful as the part numbers for the main, wing are different from those listed on page 38.

Glue the horizontal stabilizer (9) to the fuselage.

Arrow points forward.

Arrow points forward.

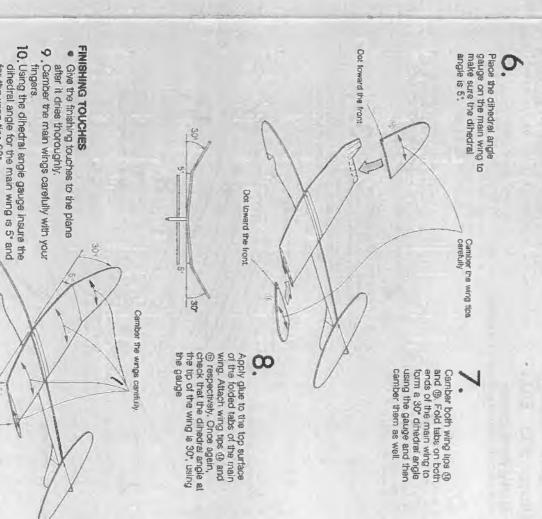
Fold all labs outward.

11. View the plane from both the front and the

30

for the wing tips 30.

back and straighten any warps or bends



Racer 523 "BILLY"

William "Billy" Mitchell (1879—1936)
An outspoken proponent of the use of Military Air Power, "Billy" began his career as a private and advenced to the rark of brigadur general. He is known as the first American altman to fly over enemy lines.

GLUING INSTRUCTIONS

Glue the parts together in the order indicated

those listed on page 38. Be careful as the part numbers for the main wing are different from MOST wings on page 38. the assembly instructions for the Assemble the main wing following

Trorizontal stabilizer @ aligning the arrows on @ and @ with the folded tab lines of @ (9) and (6) to the tabs of the Glue the vertical stabilizers

(@+@+@) firmly to the fuselage. Glue the tall section

Arrows point forward. as shown

Fold both tabs of the horizontal stabilizar

outward. Fold all tabs

to the fuselage. Give the main wing firmly

ATTY.

Pull study mounts

Place the dihedral angle gauge on the main wing to make sure the dihedral angle is 15°

Glue () through (8) together.

Camber the wings carefully

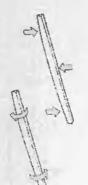
FINISHING TOUCHES

- Give the finishing touches to the plane after it dries thoroughly.
- 2. Camber the main wings carefully with your imgers.
- 0 View the plane from both the front and the back and straighten any warps or bends in



ASSEMBLY INSTRUCTIONS FOR THE TRIANGULAR LONG FUSELAGE **Simulation**

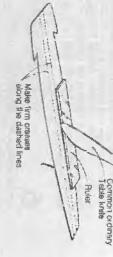
name. performance makes it worthy of the Whitewings to bending and twisting. Its aerodynamic the triangular long fuselage which is resistant and designing a fuselage that accompdates the That is why I have spent some time researching This is especially true of larger paper airplenes A truly high performance paper plane is light, The result of these efforts was the invention of body construction of a larger paper airplane sturdy, and has little air resistance or drag.



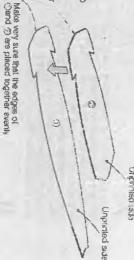
The triangular long fuselage is resistarit to both bending and twisting.

Make firm creases along the dashed lines of fuselage pieces (① & ②) using

knife) and a ruler as a guide. a common ordinary table knife (blurit Avoid cutting through the dashed lines



surface of printed side of \(\int \) Apply \(\cap \) to the unprinted side of \(\int \). Make very sure that the edges of \(\int \) and \(\int \) that form the plane nose are placed together diagram. evenly, or flush, as shown in the Spread glue evenly over the entire



Before the glue dries, fold () and (2) slong the creased dashed lines having



Give the inner edges together to complete the formation of the cross section as shown.

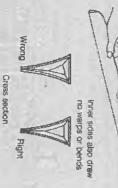
the glue dries. Look inside of the fuselage View the fuselage closely from both to make sure the inner sides also draw straighten any warps or bends before the front and back and carefully no warps or bends.

Let the fuselage dry completely by glued edges as shown. It takes at attaching clips or clothespins on the least 2 hours to dry

the plane nose than at any other part. The remaining area of the top of the fuselage, except for the thick dashed groove must be deeper at the tip of pressing down upon it with a ruler. The line at the plane nose by carefully line, should remain flet. Make a groove along the thick dashed

00

Put give into the groove at the up of the plane nose and both inner sides of the plane nose and glue together. Let it dry thoroughly (at least 2 hours) using a clip to keep the tip of the nose in place.









Cross section



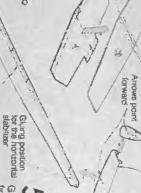
Cross section

Arrows point forward

When dry, cut off the protruding

portions.

Give the main wing (3+9) family align the center line of the main to the gluing position for the main wing with the center line on the wing on the tuselage. Make sure to iuselage.



Glue the tail section (5+6+0) on the fuselage. center line of the horizontal stabilizer (5) with the center line the horizontal stabilizer on the firmly to the gluing position for fuselage. Make sure to align the

Glung position for the

FINISHING TOUCHES

- Give the firshing touches to the plane after
- 00 Camber the main wings carefully with your it dries thoroughly.
- Using the dihedral engle gauge make sure Tingers.
- 10. View the plane from both the front and the back and straighten any warps or bends in the dihedral angle for the main wing is 15°



TriLinear 701 LINDBERG

Charles Lindberg (1902—1974)

Well-Prown plot of the Spirit of St. Louis, "Lucky Lindy" made the first solo norstop transation to fight. He became a respected aviation consultant, won a Pullbar Fluck for his eulobiography, and was awarded a Congressional Medial of Henor

GLUJNG INSTRUCTIONS

Glue the parts together in the order indicated.

(i)

155

on pages 43 & 44. instructions for the following the assembly Assemble the fuselage

angle of approximately 15° for both sides of the main wing. individually to make a dihedral wing and bend each side up the outer lines of the main Place a ruler along each of

> stabilizer ® aligning the arrows on @ and D with the folded tab lines of ®. Glue the vertical stabilizers (6) and (7) to the tabs of the horizontal

horizontał stabilizer

S as shown. Fold both tabs of the

Outer lines for the dihedral angle

TriLinear 702 RICKENBACKER And Pursual and Has combat in sortion.

Give the parts together in the order indicated GLUING INSTRUCTIONS

Assemble the fuselage

or pages 43 & 44 instructions for the following the assembly

ringle of approximately 15° tor king and bend each side up oth sides of the main wing ndvidually to make a dinedral he outer ines of the main lace a ruler along each of

the fuselage

stablizer with the center time on

Give the vertical stabilizer (%)+(2) to the gruing pastion for the vertical stabilizer on the the folded lab tine of the vertical fuse age. Make sure to align

> Fold (n along the dashed line at a 90° angle and then cut off the protructing portions.

Stabilizer © Fold the tab of the vertical stabilizer (5) Glue () to the other side of the vertical

portions.

Glue the hor zontal stabiliza" (h fimily to the gluing position for on the fuselage the horizonta stabilize

Outer lines for the ofuling position for the vertical stabilizer Gluing position for the horizontal stabilizer Arrow points forward

When dry, cut off the protruding,

Arrows point forward

Blue 13 to the underside of 15

SUCH IDE

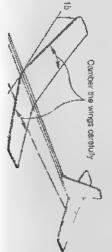
INISHING TOUCHES

o align the center line of the main Sing the main wing ((3) + 3) firmly the gluing position for the main

ving with the center line on the ving on the fusetage. Make sure

the main wing

- Give the limishing touches to the plane after It dries thoroughly
- Camber the main wings carefully with your
- the dihedral angle for the main wing is 15°. View the plane from both the front and the Using the dihedrat angle gauge make sure
- back and straighten any warps or bends in



TriLinear 703 CHENNAULI

Cleard Lee Chenhauli (1890,-1958)

Owing to a detailed study of pursuit meneuvers and factics, he became a spoulist in weterne aviation. Because of the expresses he was reduised by the Nationaled Chinese to train and organiza their air defence forces which became known as the "Figing Tigers".

GLUING INSTRUCTIONS

Gilue the parts together in the order indicated

triangular long fuselage on pages 43 & 44. instructions for the following the assembly Assemble the fuselage wing and bend each side up individually to make a dihedral Place a ruler along each of single of approximately 15° for the outer lines of the main

Give @ to the underside of @. When dry, but off the protruding both sides of the main wing

Glue the main wing (3+@) firmly to the gluing position for the main wing on the fuselage. Make sure to align the center line of the main wing with the center line on the Arrows point forward. Outer lines for the dihedral angle main wing preward. Arrows point Gluing position Glue the tail section (⑤+⑥+⑦) for the horizontal furnity to the gluing position for stabuzer the horizontal stabuzer on the as shown Fold both tabs of the horizontal stabilizer (E)

FINISHING TOUCHES

- it dries thoroughly. Give the finishing touches to the plane after
- 83 Camber the main wings carefully with your fingers.
- 9 the dihedral angle for the main wing is 15° Using the dihedral angle gauge make sure
- 10. View the plane from both the front and the back and straighten any warps or bends in

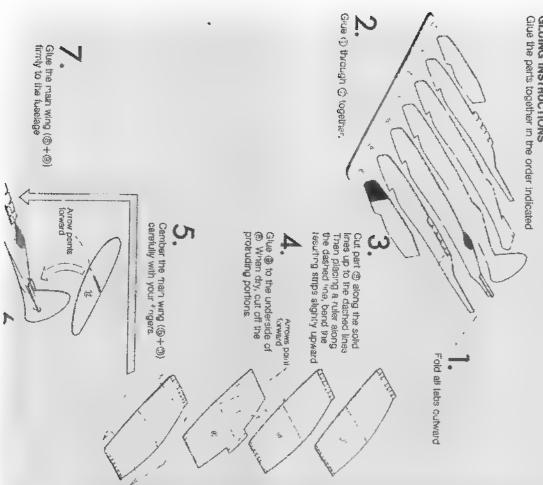
Glue the vertical stab izers (a) and (2) to the tabs of the horizontal stabilizer (5) aligning the arrows on (a) and (2) with the folded tab lines of (5).

on the tuselage stabilizer (5) with the center Ima center line of the horizontal fuselage. Make sure to align the





GLUING INSTRUCTIONS



11. Using the dihedral angle gauge make sure the dihedral angle for the wing tips are 30°12. View the plane from both the front and the 10. Camber the main wings carefully with your Give the finishing touches to the plane after FINISHING TOUCHES it dries thoroughly Dot toward the front. ingers, Camber the wing tips Dot toward the front angle using the gauge and then camber them as wel: Camber both wing tips @ and (). Fold up the tabs on both ends of the wing to form a 30' dihedral ungle gauge, once again, check that the dihedral angle for the wing tips are 30° Apply glue to the top surface of the folded labs of the main wing and affach wing tips 3 and 6 respectively. Using the dihedral Camber the wings carefully 300

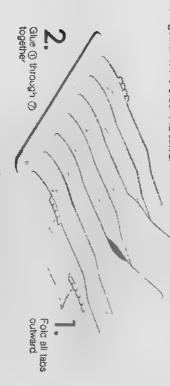
back and straighten any warps or bends in

Plane 306 ORVILLE

Orvitle Wright (1871—1948)
Considered a dreamer, the impensions younger brother of the Wright Brothers dust Orvitle backers one of America's process in availors through the use of his profile; inadignation and the help and encouragement of his brother

GLUING INSTRUCTIONS

Glue the parts together in the order indicated.



Camber the front wing (@+@) in line with the curved tabs for the front wing on the fuselage

Glue (3) to the underside of (3) When dry, but off the protruding portions. Glue the front wing (@+@) <u></u> firmly to the fuselage forward.

pinholes together with a ruler and draw a center line on the bottom side of the main wing. of the center line on the top side of the main wing. Turn the main wing over Link the Make a pinhole at both ends

Arrows point forward

Camber the main wing (@+@) carefully with your fingers.

Out part (a) along the solid lines up to the dashed lines. Then placing a ruler along the dashed line bend the resulting strips slightly upward

Give (a) to the underside of (a). When dry, out off the protruding partions



FINISHING TOUCHES

Give the finishing touches to the plane after it dries thoroughly

Cember the main wings carefully with your fingers.

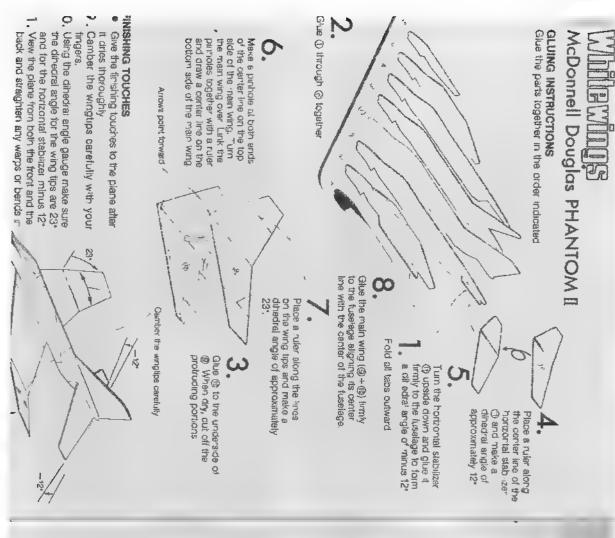
14. Using the dinedral angle gauge make sure the dihedral angle for the wing tips are 35.15. View the plane from both the front and the back and straighten any warps or bende in

Dot toward the front Camber both wing tips of @ and @ Fold up the tabs on both ends of the wing to form a 35' dihedral angle using the gauge and then camber them as well

Dot loward the front

Apply give to the top surface of the folded labs of the main wing and attach wing tips (M) and (I) raspectively Using the gauge once again, check that the cinedral angle for the wing tips are 35°

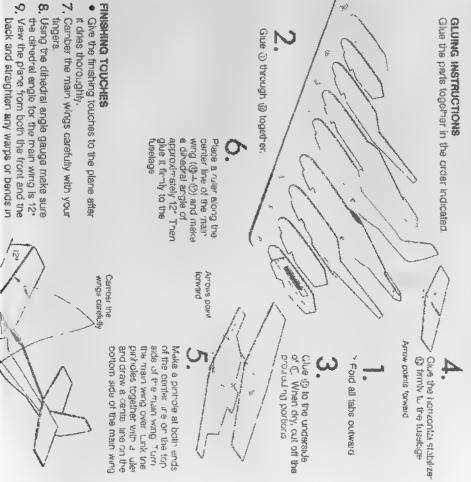




"STREGA" (Modified P-51 MUSTANG

Each year, in September, the city of Reno holds a National Championship Air Race (Reno is in the Nevada Desert about 220 miles northwast from San Francisco.) The Strega achieved a new race record with an average speed of 454 mph in the Reno Air Race in 1987. The

unlimited class is comprised of many racing models, including modified battle planes with great horsepower such as the Mustang, Bearcat, Corsair, and Sea-Fury, that were at work during World War II. The Strega, meaning "witch" in halian, is a remodeled Mustang P-51.



Glue the parts together in the order indicated. GLUING INSTRUCTIONS Lockheed CONSTELLATION

the center time on @ Gue @ to @ aligning the folded tab 'nes of @ with

stabilizer (1) as shown Fold taba of the vertical

Glue the vertical stabilizers () and () to the tabs of the horizontal stabilizer () aligning the arrows on () and () with the folded tab lines of ()

e Fold both tabs of the horizontal stabilizer @ as shown

Arrows point forward.

Give the tail section (@+@+@) firmly to the fuselage.

Fold all tabs outward

forward

Glue (1) to the underside of (1). When dry, out off the protruding portions.

bottom side of the main

G'ue () through () together

it firmly to the fuselage and make a dihedral angle of approximately 10° Then glue Place a ruler along the center the top side of the main wing Make a pinhole at the both ends of the center line on together with a ruler and draw a center line on the over Link the pinholes

INISHING TOUCHES

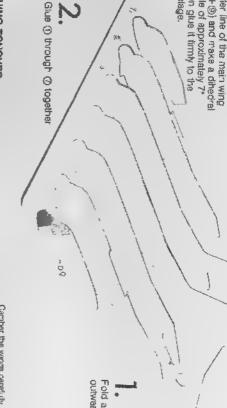
- Give the finishing touches to the plane after t dries thoroughly
- 1. Camber the main wings carefully with your fingers
- 2. Using the dinedral angle gauge make sure the dihecral angle for the main wing is 10°
- 3. View the plane from both the front and the back and straighten any warps or bends in



Give ® to the underside of ® When dry, cut off the protruding partions. Arrows point forward

Place a ruler along the

ruselage. angle of approximately 7°.
Then glue it firmly to the center line of the main wing ((®+(®)) and make a dihedral



FINISHING TOUCHES

- Give the finishing touches to the plane after
- Camber the main wings carefully with your it dries thoroughly
- 7. Using the dihedral angle gauge make sure the dihedrel angle for the main wing is 7" lingers.
- 8. Fold (1) up slightly along the center line and
- glue it onto the center of the main wing.

 Q. View the plane from both the front and the back and straighten any warps or bends in



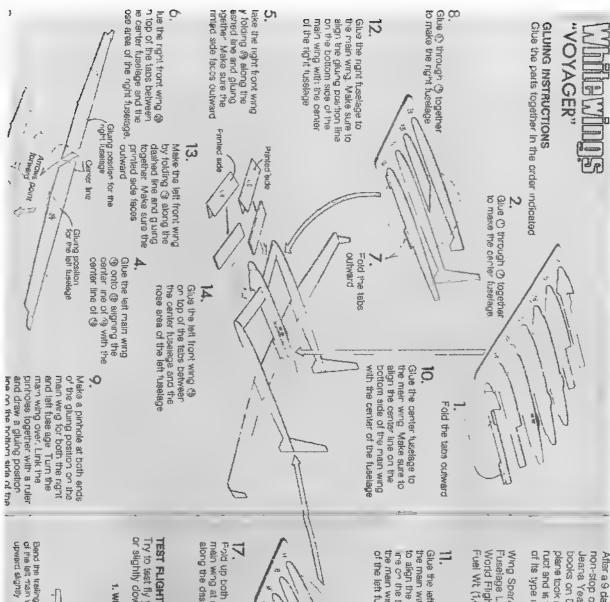
Lockheed C130 HERCULES

GLUING INSTRUCTIONS

Give the parts together in the order indicated.

Turn the horizontal stabilizer @ upside down and glue @ to the fuse age aligning the center line on @ with the center of the

outward Fold all tabs



After a 9 day and 25,012 mile flight around the world, non-stop on a single load of fuel, Dick Rutan and ruct and is the only long range, fuel efficient aircraft of its type in the world. plane took an incredible 22,000man hours to const Jeana Yeager anded the Voyager in the record books on December 23, 1987. This revolutionary

Glue the left fuselage to the main wing. Make sure ine on the bottom side of

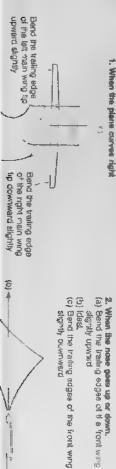
the main wing with the center of the left fuselage

Hold the tabs outward

Fold up both ends of the main wing at a 90° angle along the dashed line

6. Give a mrough to together to make the left fuscinge.

or slightly downward. Adjust it in the order indicated to ensure a straight flight. Try to test fly your plane when there is as little wind as possible. Throw the plane gently either horizontally



20. View the plane from both the front and the Bend the main wings up slightly at the Camber the main wings carefully with your after it dries thoroughly the tuselages and the wings. back, and straighten any warps or bends in The wing tips should be raised about 200 make the dihedral angle for the main wing joints of both the right and left fuse age to fingers (3/4°) from the horizontal level

<u>~</u> <u>ç</u> FINISHING TOUCHES

Give the finishing touches to the plane

Camber the wings carefully

(b) Ideal (c) Bend the trailing edges of the front wing slightly ocwnward slightly upward

McDonnell Douglas PHANTOM II

Fold with dashed the inside Arrows point forward



Arrow points forward

Wake the dihedral angle - along this line.

~ Make the dihectral angle along this line Arrow points forward

6

Dihedral angle gauge for the wing tips

Dihedral angle gauge for the horizontal stabilizer

Arrows point forward

ITTIES McDonnell Douglas PHANTOM II

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Lockheed CONSTELLATION

000 Dihedra angle gauge Arrow points forward ZIIIZZIIIZ

Arrow points forward

0

Lockheed C130 HERCULES

Fold with dashed the riside Arrows point forward

- Arrow points forward

> Arrow paints forward

Bend-resistant direction

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1 M. \Rightarrow

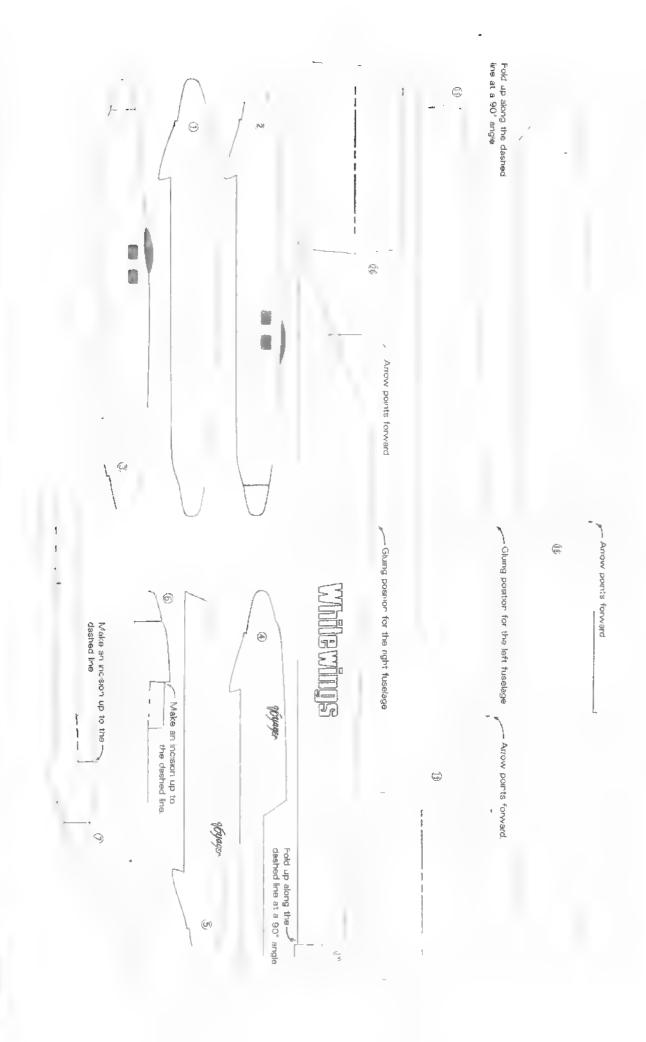
3 Ű N269VA

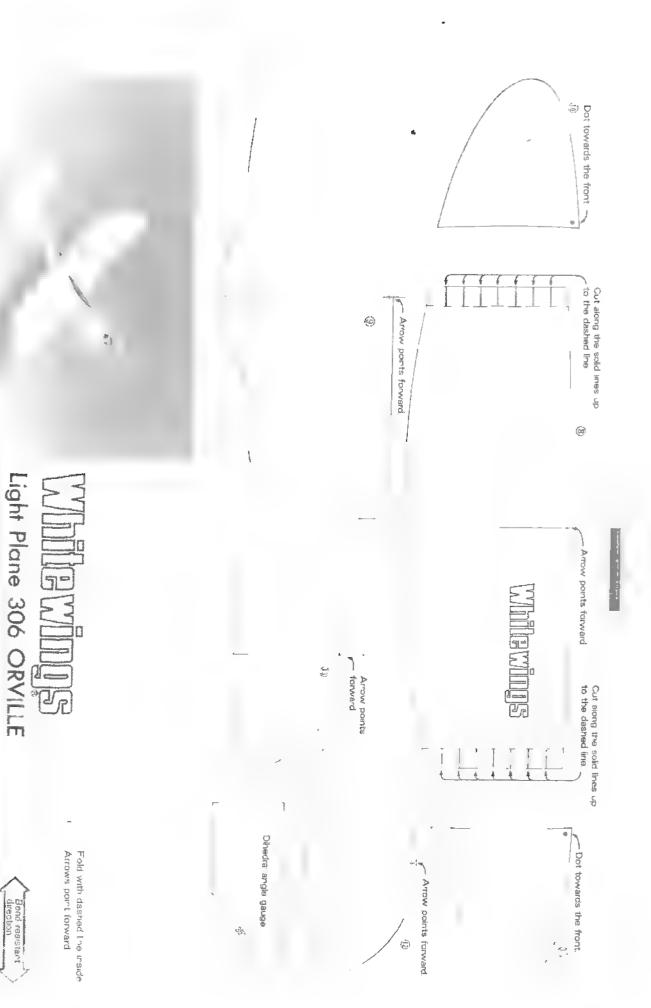
"VOYAGER"

Fold with dashed the riside Arrows point forward.



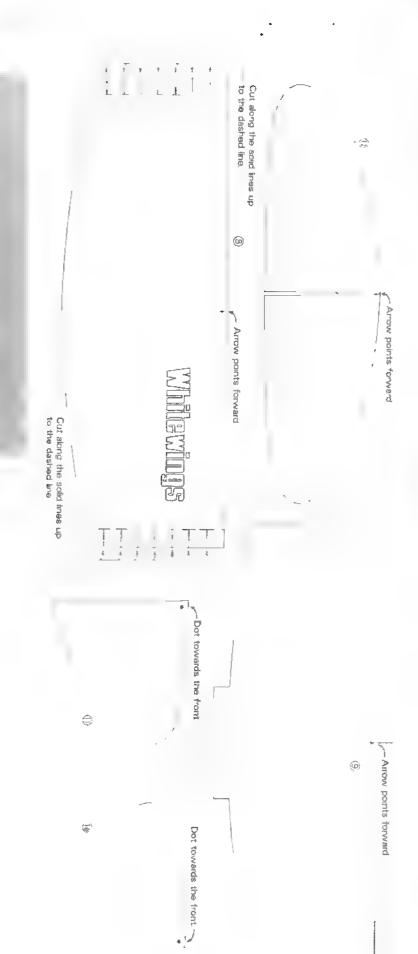
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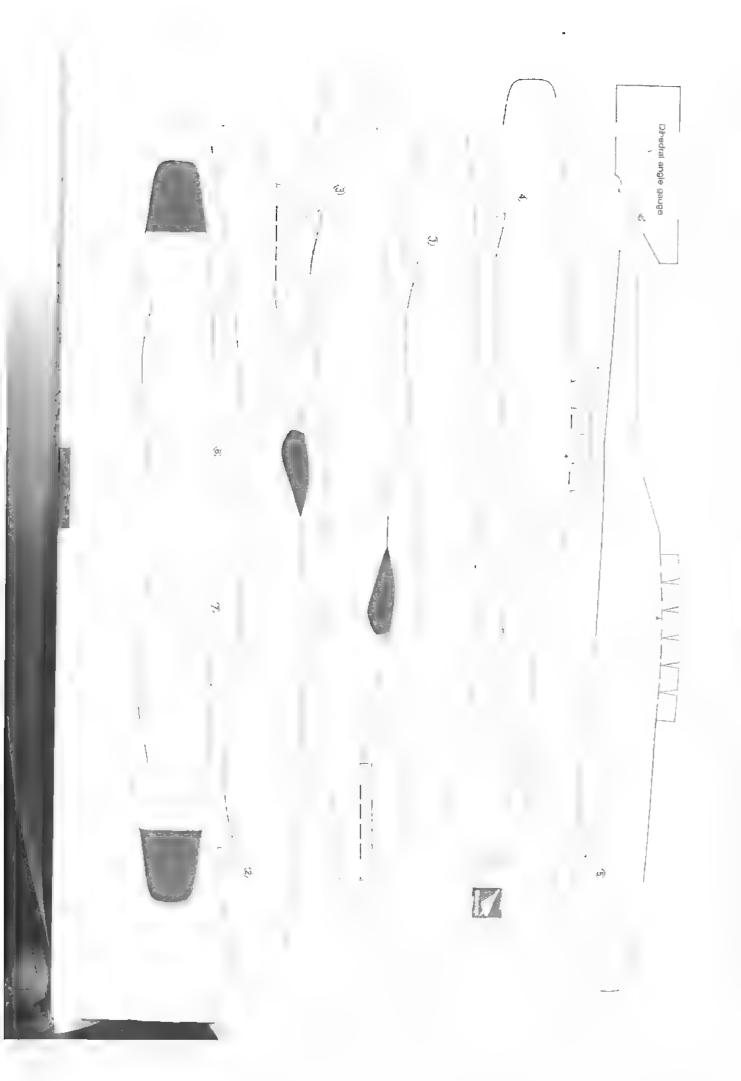
Cut along the solid lines up to the dashed line Cut along the solid lines up to the dashed line

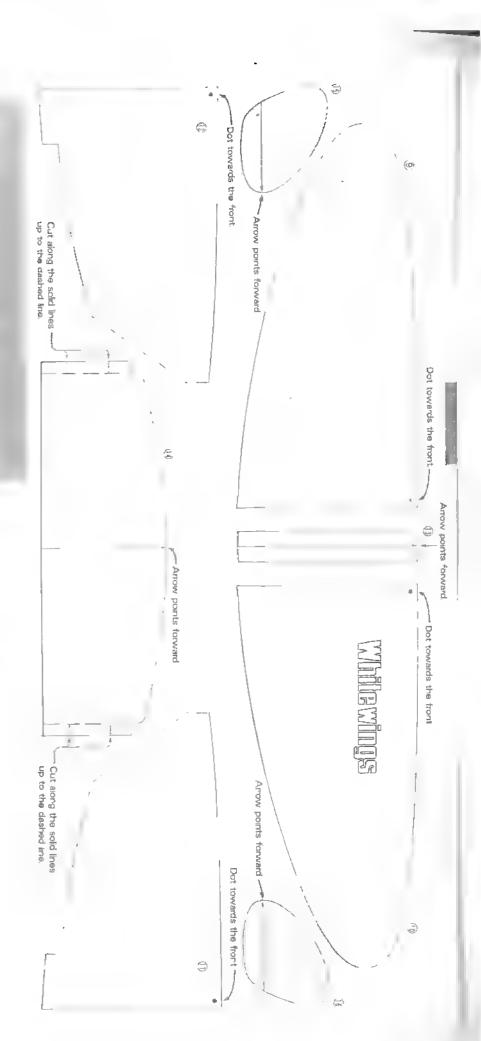


Light Plane 305 WILBUR

Fold with dashed line inside Arrow's boint forward

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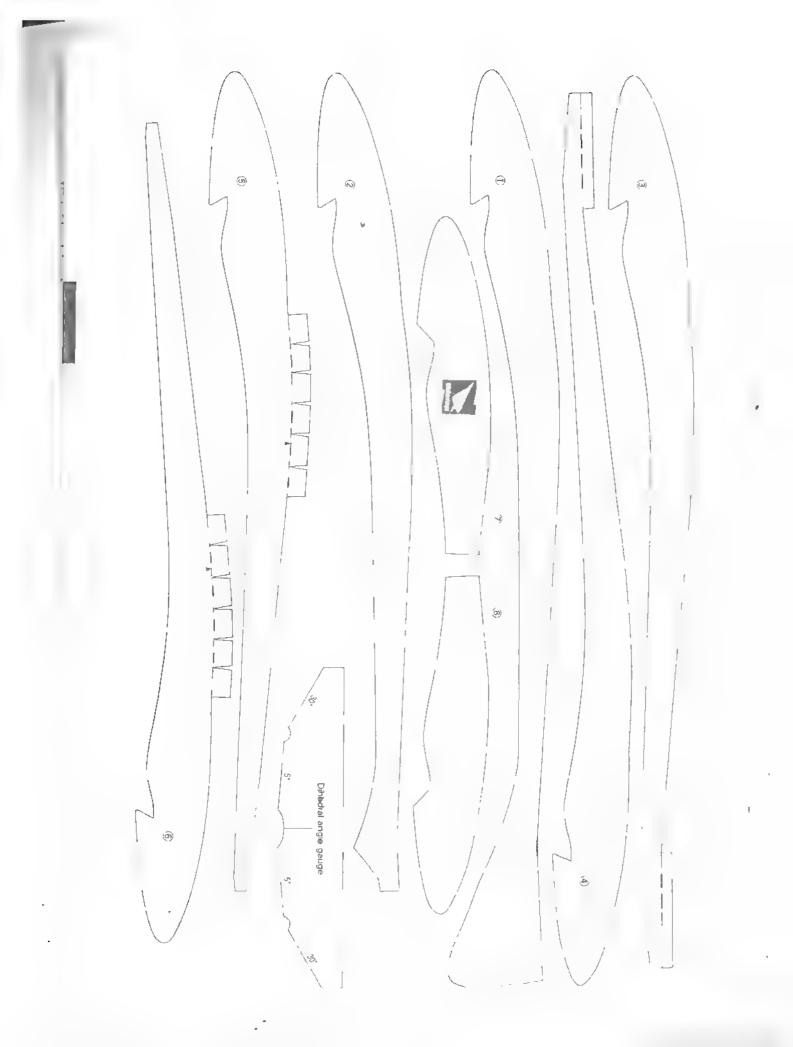


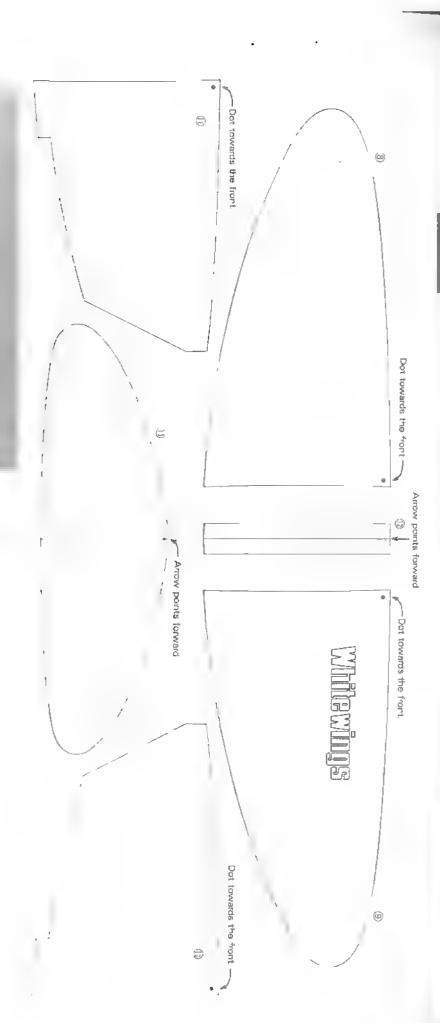


Fold with dashed ine inside. Arrows point forward



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Fold with dashed line inside Airows point forward





Arrow points forward.

- Arrow points forward.

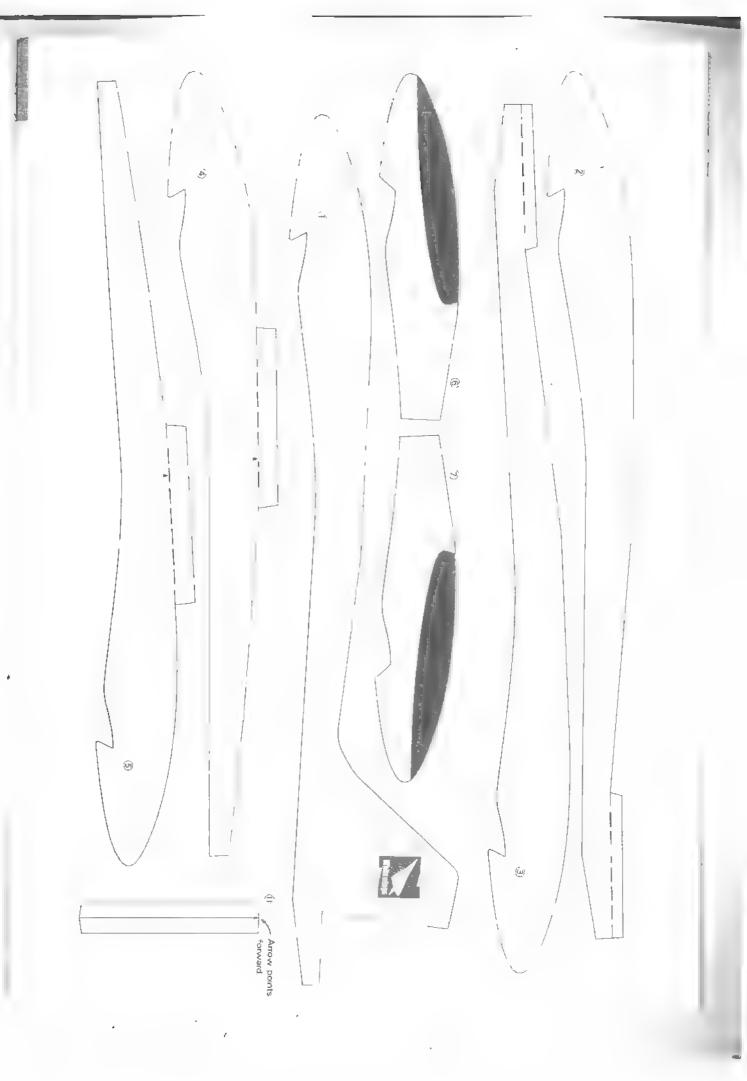
Dihedral angle gauge

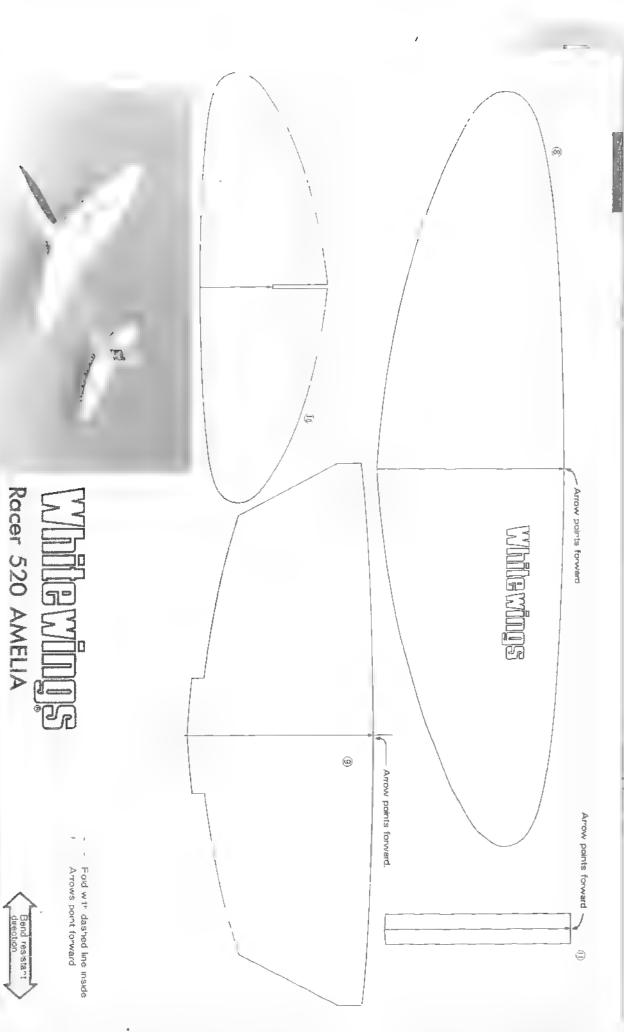
Racer 519 "PAPPY"

Fold with dashed line inside Arrows point forward



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- Arrow points forward Arrow points forward While wings Points forward -

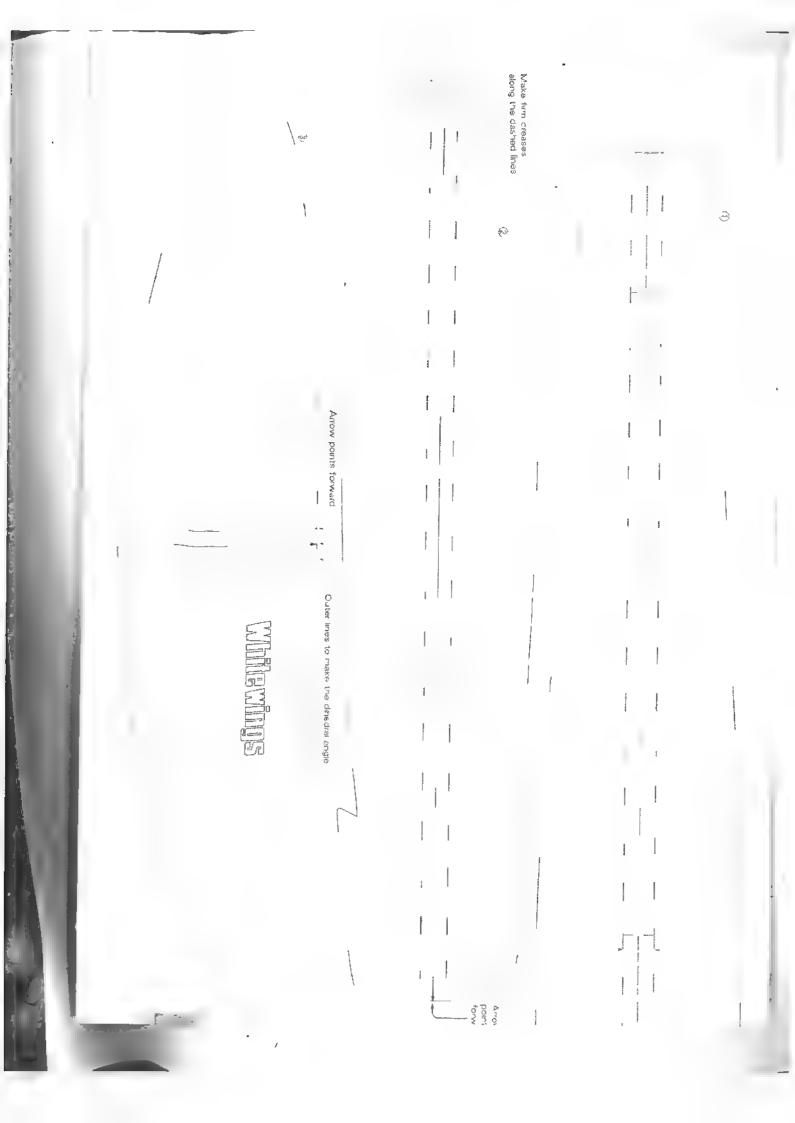
"STREGA" (Modified P-5] MUSTANG) (Bend resistant

Arrows point forward Fold with dashed line inside

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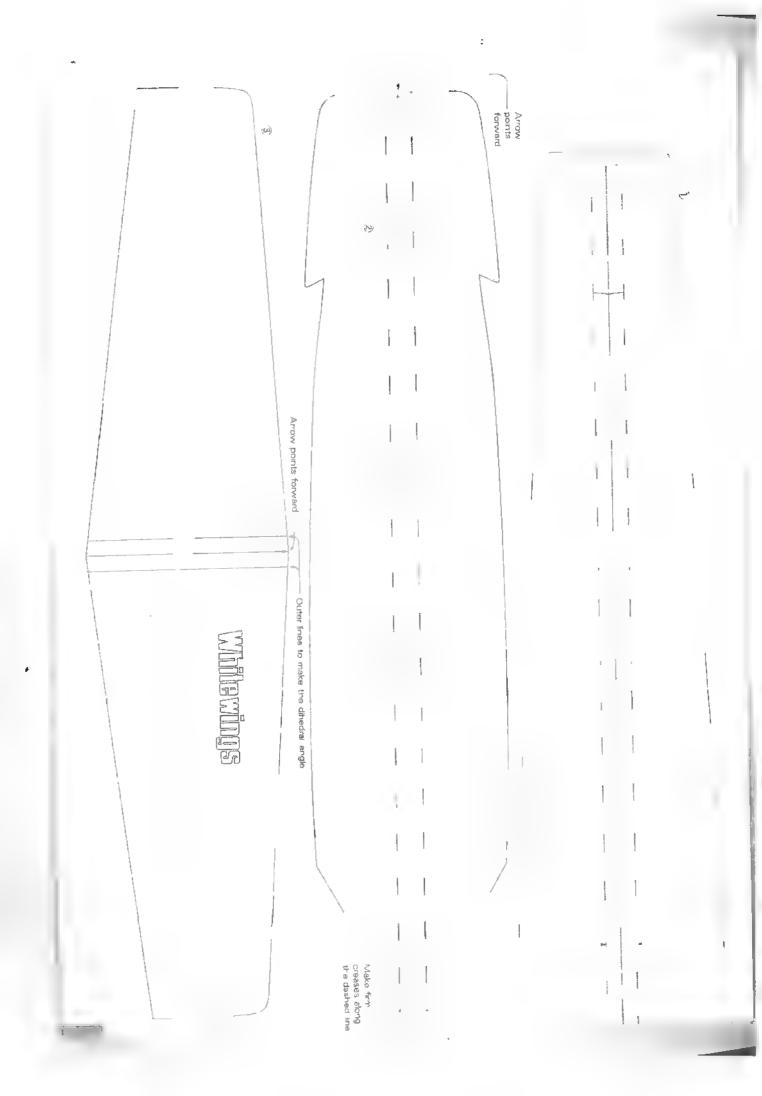


Arrow points forward \in Arrow points forward -Outer lines to make the dihedral angle While wings Make firm creases along the dashed line:



ard w TriLinear 702 RICKENBACKER Fold the tab along this dashed line. Arrow points forward Fold with dashed ine inside Arrows point forward Arrow points forward -Wake firm creases along the dashed lines Arrow Points forward **a** b Then fold up along the dashed line at a 90" angle Dhedral angle gauge 9 After folding, trim along the solid line a First cut out the

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වූ ය ∢ Arrow points forward. . Cut along the solid lines up to the dashed lines Θ Gy. Arrow points forward TriLinear 703 Arrow points forward. Arrow points forward. Make firm creases along the dashed lines. Arrow points forward. Dihedral anlge gauge Fold with dashed I ne inside Arrows point forward.

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p o ≥ Arrow points forward Arrow points forward points forward. Arrow points forward Wake firm creases along the dashed lines Arrow points forward Dihedral anige gauge Fold with dashed line inside Arrows point forward Bend-resistant direction

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--- Outer tries to make the unodral angle Arrow points forward



Dihedral angle gauge

vake firm creates along the dashed lines

at a 90° angle (i)

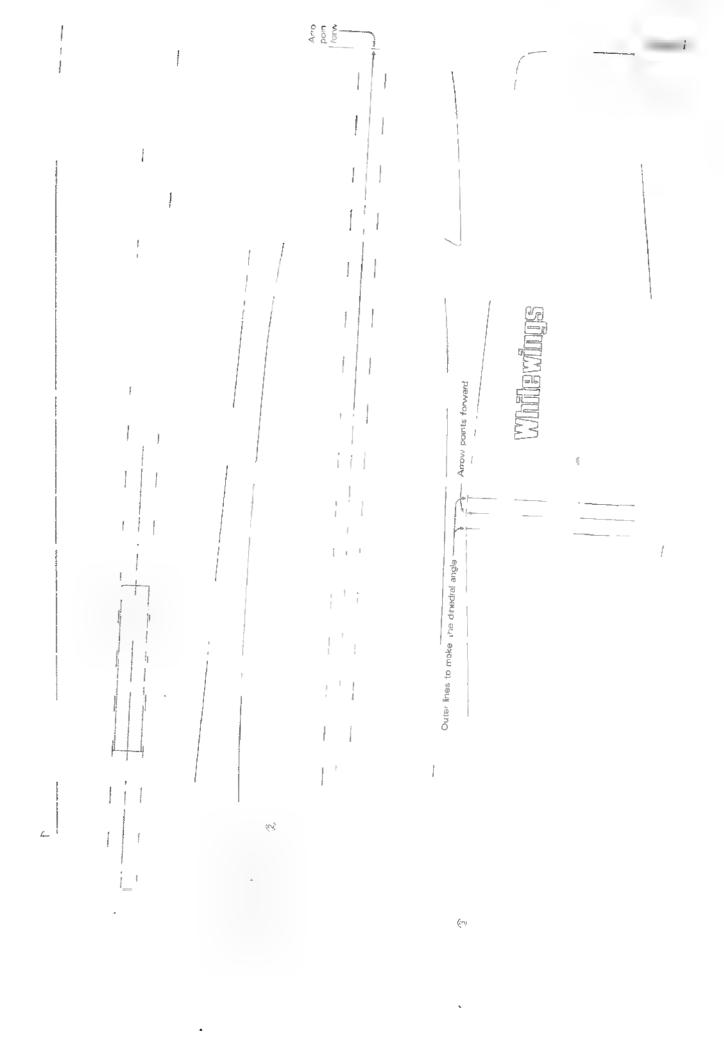
After folding trim along the sold line

Fold with dashed line insid Arrows point forward

Bend-res stant direction

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TriLinear 702 RICKENBACKER



Dot towards the front -

Arrow points forward

12

Dot to

Dot towards the front.

Thierings

-

Dot towards the front.

Dot towards the front.

--- Arrow points forward

Racer 521 JACQUELINE

Fold with dashed line inside Arrows point forward

Bend-resistant direction

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